

CLAIMS

1. A dynamoelectric rotor comprising:
a Lundell rotor core having:
 a cylindrical boss portion;
 yoke portions respectively disposed so as to extend radially outward from two axial end edge portions of said boss portion;
 and
 a plurality of claw-shaped magnetic poles disposed so as to extend axially from outer peripheral portions of said yoke portions so as to intermesh with each other alternately;
a field winding installed on said boss portion; and
a linking structure made of a nonmagnetic material for linking a tip end portion and a root end portion of at least one adjacent pair of said claw-shaped magnetic poles,
 wherein:
 said field winding is wound onto said boss portion so as to have a larger diameter than a root inside diameter of said claw-shaped magnetic poles and is placed in contact with an inner peripheral surface of at least one of said claw-shaped magnetic poles with an insulating member interposed.
2. The dynamoelectric rotor according to Claim 1, wherein:
a region of said adjacent claw-shaped magnetic poles extending from the tip end portion to the root end portion is linked by said linking structure.
3. The dynamoelectric rotor according to Claim 1, wherein:
a plurality of said pairs of adjacent claw-shaped magnetic poles are linked by a plurality of said linking structures and said linking structures

are linked circumferentially.

4. The dynamoelectric rotor according to Claim 1, wherein:

one of said linking structure is mounted to each of said adjacent claw-shaped magnetic poles and adjacent pairs of said linking structures are placed in contact with each other or are joined together between said claw-shaped magnetic poles.

5. The dynamoelectric rotor according to Claim 4, wherein:

a portion of said linking structure is interposed between said insulating member and the inner peripheral surface of said claw-shaped magnetic pole.

6. The dynamoelectric rotor according to Claim 5, wherein:

said linking structure is made of an insulating material and said insulating member is constituted by a portion of said linking structure.

7. The dynamoelectric rotor according to Claim 1, wherein:

a magnet for reducing leakage of magnetic flux between said adjacent claw-shaped magnetic poles is held by said linking structure.